

Customer Trainings 2010

TRITON

Training Courses 2010

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1. General Information

Thermo Fisher Scientific offers a number of training courses throughout the year for advanced mass spectrometry product systems, peripherals and software. The courses are designed to suit the requirements of beginners and advanced operators. In order to get the most from your system, we would like to encourage you to take advantage of getting in-depth knowledge of the instrument and technology from our highly experienced application specialists. Certificates are provided upon completion of the training.

Scheduled training courses take place at our Application Laboratory at

Thermo Fisher Scientific (Bremen) GmbH
Hanna-Kunath-Str. 11
28199 Bremen
Germany

Each course requires a minimum of three participants, but each group will not exceed a maximum of six participants. The training course language will be English unless specified otherwise.

For **training fees** please contact your local Thermo Fisher Scientific sales representative. The training fees include catering during training session (two coffee breaks and lunch). The training fees do not include individual travel costs, hotel accommodation or per diem expenses. However, we can offer you to arrange your hotel accommodation in Bremen. Preferably, we book our training guests into the Holiday Inn Express Bremen Airport, which is conveniently located next to our facilities, in walking distance of the airport (6 minutes) and 15 minutes by tram from the main railway station. Our preferred rate of 81 € includes breakfast and internet access.

Registration deadline is six weeks prior to scheduled dates. For registration please use our registration form. You can also register online at <http://training.thermo-bremen.com>

In case of **cancellation** we strongly recommend to nominate a substitute if possible. Cancellation prior to registration deadline is possible. Cancellations four weeks prior to scheduled courses are subject to a 50 % cancellation fee. Cancellations a week prior to scheduled courses are subject to a 90 % cancellation fee.

Training courses may be rescheduled or cancelled due to a lack of participants or other reasons. Already registered attendees will be informed as soon as possible.

On-site training Thermo Fisher Scientific can also conduct the training courses at your facilities. The on-site training courses will be customized according to your instrument(s), software and application requirement(s). Your own instrument(s) will be used to train operation and maintenance procedures.

Training upon request: Training courses with a very special content will be held upon request only.

Visa Formalities: Please check whether you will need a visa for Germany. In case you do, please fill in the form below to enable Thermo Fisher Scientific (Bremen) GmbH to issue the visa invitation letter.

Please fax to No. +49 421 54 93 396 Customer Training

Last name (surname):	
First name(s) (given name(s)):	
Title:	
Gender (male / female)	
Date of birth DD - month (in letters) - YYYY	
Number of passport:	
Period of stay, including travel times:	
Correct and complete name and address of customer's company or institute, including telephone and fax numbers (no postbox):	
Correct and complete address of the embassy where to apply for visa, including telephone and fax numbers:	
Correct and complete address (including contact person) of where the originals of the invitation letters shall be sent by courier, including telephone and fax numbers:	

2. Thermal Ionization Mass Spectrometer – TRITON

These **thermal ionization mass spectrometer** training courses are designed for customers who have purchased the TRITON. The **general objective** of these training courses is to familiarize with the TRITON instrument features, basic instrument operations, check and maintenance, collector system, methods as well as software, and trouble shooting.

Participants' profile: General understanding of mass spectrometry (MS), English language.

TRITON Basic Operator Training Courses	
5-day operator training	22.02. – 26.02.2010
5-day operator training	25.10. – 29.10.2010
TRITON Lab Manager Training	
Focused on Hardware Maintenance 3-day lab manager training At the factory only	upon request

Training Sessions:

Monday	10:00 – 16:30 h
Tuesday – Thursday	09:30 – 16:30 h
Friday	09:30 – 14:00 h

2.1 TRITON Basic Operator Training Course Outline

February 22 – 26, 2010

October 25 – October 29, 2010

Basic Introduction:

- Introduction to Mass Spectrometry
- Principle of Thermal Ionization
- Design Basics of the TRITON
- Applications

General Explanations

- Features
- Geometry
- Pumping System
- Electronics

Hardware Details and Handling

- Ion Source
- Sample Magazine
- Filaments
- Sample Loading
- Collector System
- RPQ/Ion Counting
- Electronics
- Multiple Ion Counting

Computer System

- Operating System
- Application Software Structure
- Communication with MS

Application Software

- Functionality
- Set-up and Calibrations
- Manual Operation
- Fully Automatic Operation
- Editors
- Diagnostics

Sample Analyses

- Sample Preparation and Loading (different elements)
- Magazine Loading
- Collector Adjustments
- Analysis Parameter Set-up
- Data Evaluation
- Multiple Ion Counting

Miscellaneous

- Specifications
- Maintenance, Baking, Negative Ions
- Trouble Shooting
- User Applications

2.2 Registration Form

TRITON Basic Operator Training

Please mail this form to training.bremen@thermo.com
or fax it to our office at ++49 (421) 54 93 396. Thank you.

<p>Participant</p> <p>Last name: _____</p> <p>First name: _____</p> <p>Title: _____</p> <p>Company/Institute: _____</p> <p>Address (street): _____</p> <p>Postal code: _____</p> <p>City / State: _____</p> <p>Country: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>E-Mail: _____</p>	<p>Training Course:</p> <p>TRITON Basic Operator Training</p> <p>Date: _____</p> <p>Accommodation</p> <p>Hotel reservation Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Smoking Non-smoking</p> <p>At Holiday Inn Express Bremen Airport (81 € including breakfast and internet access)</p> <p>Other (please specify price range / location)</p> <p>Date of Arrival: _____</p> <p>Date of Departure: _____</p>
<p>Our Instrument is</p> <p>_____</p> <p>Service number (if known):</p> <p>S/N _____</p> <p>We use the following software</p> <p>_____</p> <p>Our main application is</p> <p>_____</p>	<p>Remarks:</p>

Date _____

Signature _____

3. Customer Operator Trainings 2010

Instruments	Training Course	Dates
ICP-MS / GD-MS XSERIES 2	XSERIES Operator Training	09.03. – 12.03.2010 08.06. – 11.06.2010 26.10. – 29.10.2010
ELEMENT ELEMENT 2 ELEMENT XR	ELEMENT2 / ELEMENT XR Operator Training German Language Training	01.02. – 05.02.2010 06.09. – 10.09.2010 22.11. – 26.11.2010 03.05. – 07.05.2010
ELEMENT GD	ELEMENT GD Operator Training	12.04. – 16.04.2010
Thermal Ionization Mass Spectrometer TRITON	TRITON Basic Operator Training TRITON 3 day Lab Manager Training	22.02. – 26.02.2010 25.10. – 29.10.2010 upon request
Multicollector ICP-MS NEPTUNE	NEPTUNE Basic Operator Training NEPTUNE 3 day Lab Manager Training	18.01. – 22.01.2010 18.10. – 22.10.2010 upon request
Organic Mass Spectrometers DFS LTQ FT Ultra LTQ Orbitrap XL LTQ Orbitrap Discovery	These trainings will be organized by the European Training Institute ETI. For more information please contact: euro.training.hemel@thermofisher.com OR catherine.lemardele@thermofisher.com Individual training available upon request.	
DFS	Operator Training	22.02. – 25.02.2010 08.11. – 11.11.2010

3. Training Schedule 2010 - continued

Instruments	Training Course	Dates
Isotope Ratio Mass Spectrometers DELTA Series MAT 253 / MAT 252	GB-EA: ConFlo III/IV and Elemental Analyzer and TC/EA Peripherals, GasBench II	15.02. – 19.02.2010
	GC-EA: GC IsoLink, ConFlo III/IV and Elemental Analyzer and TC/EA Peripherals	08.02. – 12.02.2010
	GC-LC: LC IsoLink , GC IsoLink	08.02. – 12.02.2010
	GC (GC/C III Interface): GC/C III Interface and Peripherals	15.02. – 17.02.2010
	GB-GC: GC IsoLink, ConFlo III/IV and GasBench II	14.06. – 18.06.2010
	EA-GC: Elemental Analyzer and TC/EA Peripherals and GC IsoLink, ConFlo III/IV	14.06. – 18.06.2010
	Dual Inlet: Dual Inlet and Peripherals / 3-day operator course	15.11. – 17.11.2010
	GB-EA: GasBench II, ConFlo III/IV and Elemental Analyzer and TC/EA Peripherals	08.11. – 12.11.2010
	EA-GC: GC IsoLink, ConFlo III/IV and Elemental Analyzer and TC/EA Peripherals	01.11. – 05.11.2010
	LC-GC: LC IsoLink and GC IsoLink	01.11. – 05.11.2010
	GC (GC/C III Interface): GC/C III Interface and Peripherals	15.11. – 17.11.2010
	Isodat Workshop Basic Software Training Advanced Software Training, Hardware programming	upon request